# Walkthrough: Rebirth of the Coder

This document provides a step-by-step guide to solving the 'Rebirth of the Coder' reverse engineering challenge.

## Step 1: Understanding the Binary

Run the 'file' command to determine the binary type:

$ file reverse\_challenge

The output will confirm that it's a compiled Python binary.

## Step 2: Extracting Readable Strings

Run the following command to look for readable text inside the binary:

$ strings reverse\_challenge

## Step 3: Running the Challenge

Execute the binary to generate the challenge file:

$ ./reverse\_challenge

This will create a file named 'challenge.dat'.

## Step 4: Extracting the Flag

Use the following Python script to deserialize and reveal the flag:

import marshal  
  
# Load the serialized code object  
with open("challenge.dat", "rb") as f:  
 serialized\_data = f.read()  
  
# Deserialize and execute  
code\_obj = marshal.loads(serialized\_data)  
exec(code\_obj)

## Step 5: Retrieving the Flag

After running the script, the flag will be displayed as:

G8KEY{Sung\_woo\_Reborn}